

1. A reinforced wall system providing impact resistance to a wall, the reinforced wall system comprising:

a wall substrate; and

a reinforcing wall covering including;

5 a first elastomeric layer adhered to said wall;

a reinforcement grid of strands;

a second elastomeric layer;

a third elastomeric layer, said third elastomeric layer including an aggregate providing a substantially drywall texture;

10 a release agent layer positioned between said second and third elastomeric layers;

and

a fire retardant coating.

2. A reinforced wall system providing impact resistance to a wall, the reinforced wall system comprising:

a wall substrate; and

a reinforcing wall covering affixed to said wall substrate including;

5 a first elastomeric layer,

a second elastomeric layer, and

a release agent layer positioned between said first and second elastomeric layers.

3. The reinforced wall system of Claim 2 wherein said release agent is selected from the group consisting of wax, teflon, silicon, or oil based materials.

4. A reinforced wall system providing impact resistance to a wall, the reinforced wall system comprising:

a wall substrate; and

a reinforcing wall covering including;

5 a first elastomeric layer,

a reinforcement grid of stretchable horizontally and vertically extending strands, said strands including stretchable elastic center cores and substantially non-stretchable fibers helically woven around said elastic cores; and

a second elastomeric layer.

10 5. The reinforced wall system of Claim 4 wherein said strands include a rubber center and aramid threads helically wrapped around said rubber center.

6. A reinforced wall system providing impact resistance to a wall, the reinforced wall system comprising:

a wall substrate; and

a reinforcing wall covering including;

5 a first elastomeric layer adhered to said wall substrate;

a reinforcement grid; and

a second elastomeric layer, said second elastomeric layer incorporating an aggregate so that the second elastomeric layer provides a substantially conventional drywall texture.

10 7. The reinforced wall system of Claim 6 wherein said aggregate is selected from the group consisting of sand, walnut shells, and metal oxides.

8. A reinforced wall system providing impact resistance to a wall, the reinforced wall system comprising:

a wall substrate; and

a reinforcing wall covering including;

5 a first elastomeric layer adhered to said wall,

a reinforcement grid,

a second elastomeric layer, and

a fire retardant coating covering said second elastomeric layer, said fire retardant layer including an intumescent material.

9. A method of reinforcing a wall substrate comprising:

providing an underlying wall substrate including an outer wall surface;

applying a first elastomeric layer upon the outer wall surface;

affixing a reinforcement grid of strands to the first elastomeric layer;

- 5 applying a second elastomeric layer upon the reinforcement grid;

applying a release agent layer upon the second elastomeric layer; and

applying a third elastomeric layer upon said release agent layer.

10. The method of reinforcing a wall substrate of Claim 9 further comprising applying an intumescent fire retardant coating to the third elastomeric layer.

- 10 11. The method of reinforcing a wall substrate of Claim 9 wherein an aggregate is incorporated into the third elastomeric layer providing said third elastomeric layer with a substantially conventional drywall texture.

12. The method of reinforcing a wall substrate of claim 9 wherein said reinforcement grid includes stretchable horizontally and vertically extending strands, said strands including elastic centers and threads helically woven around said elastic centers.

13. A method of reinforcing a wall substrate comprising:

5 providing an underlying wall substrate including an outer wall surface;

 applying a first elastomeric layer to the wall substrate;

 applying a release agent layer upon at least a portion of the first elastomeric layer;

and

 applying a second elastomeric layer upon said release agent layer.

14. A method of reinforcing a wall substrate comprising:

providing an underlying wall substrate including an outer wall surface;

applying a first elastomeric layer upon the outer wall surface;

affixing a reinforcement grid of strands to the first elastomeric layer, the

5 reinforcement grid including stretchable horizontally and vertically extending strands,
the strands including elastic centers and threads helically woven around the elastic
centers; and

applying a second elastomeric layer upon the reinforcement grid.

15. A method of reinforcing a wall substrate comprising:

10 providing an underlying wall substrate including an outer wall surface;

applying an elastomeric layer to the outer wall surface, the elastomeric layer
incorporating an aggregate providing the elastomeric layer with a substantially drywall
texture.